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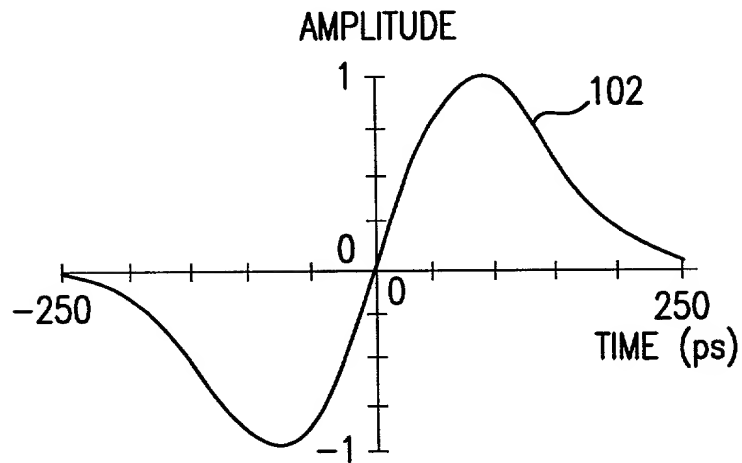


FIG. 1A

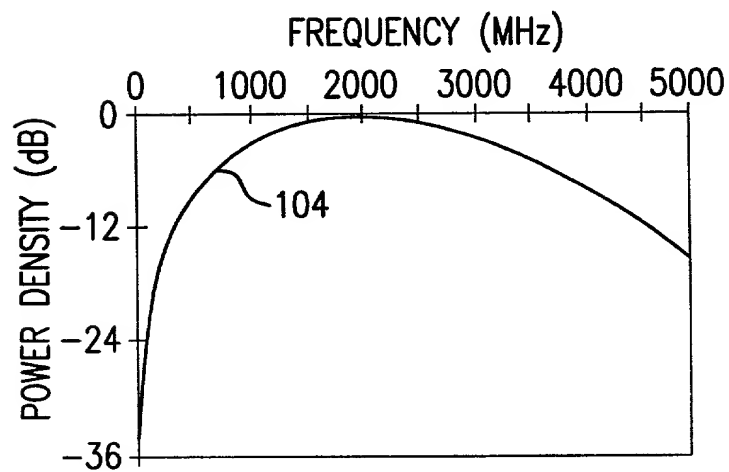


FIG. 1B

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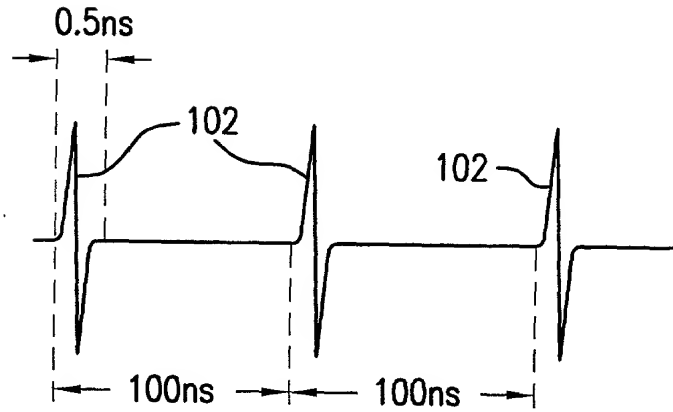


FIG.2A

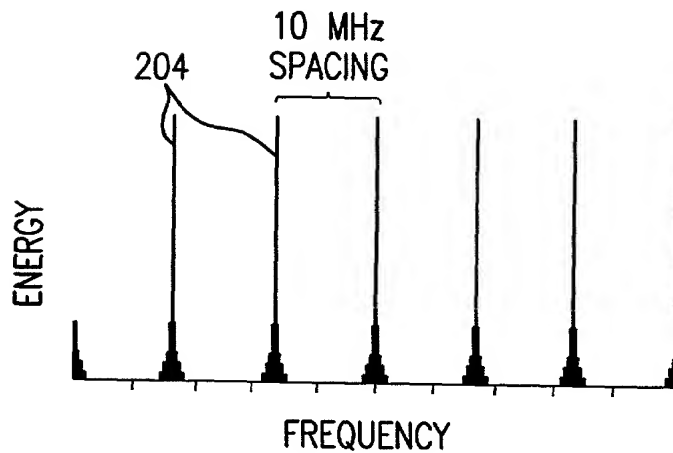


FIG.2B

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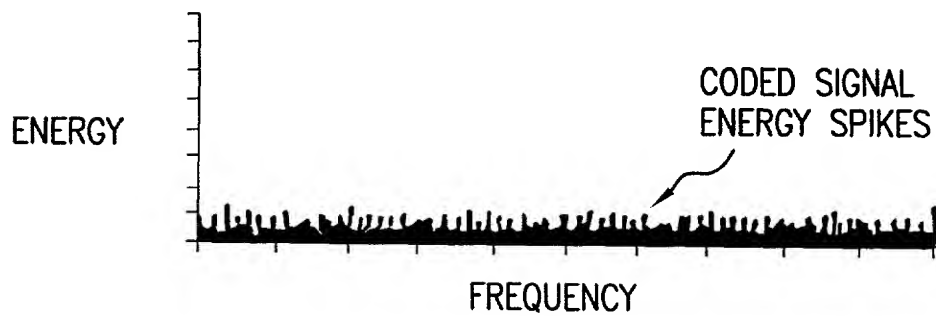


FIG.3

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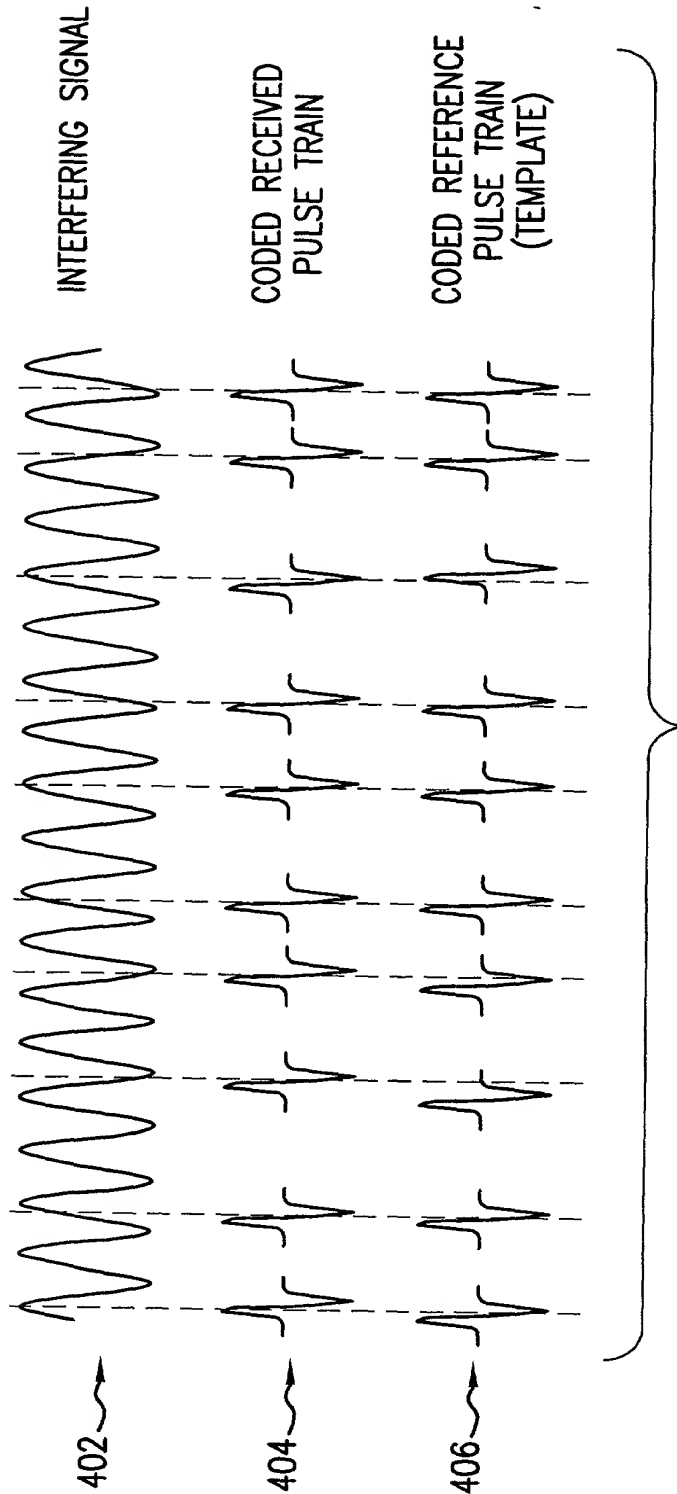
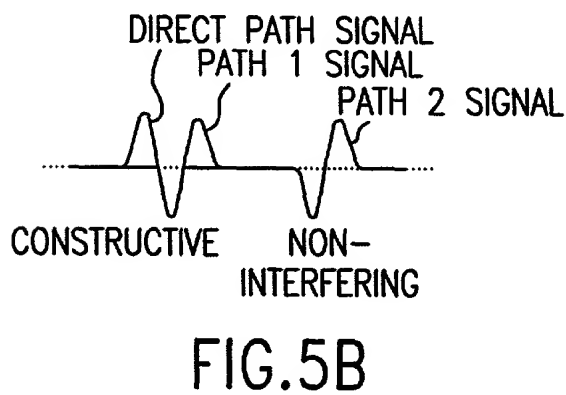
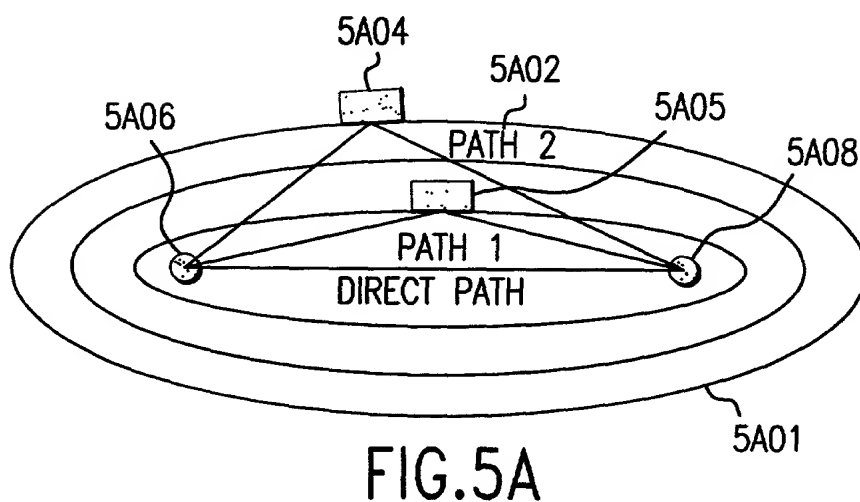
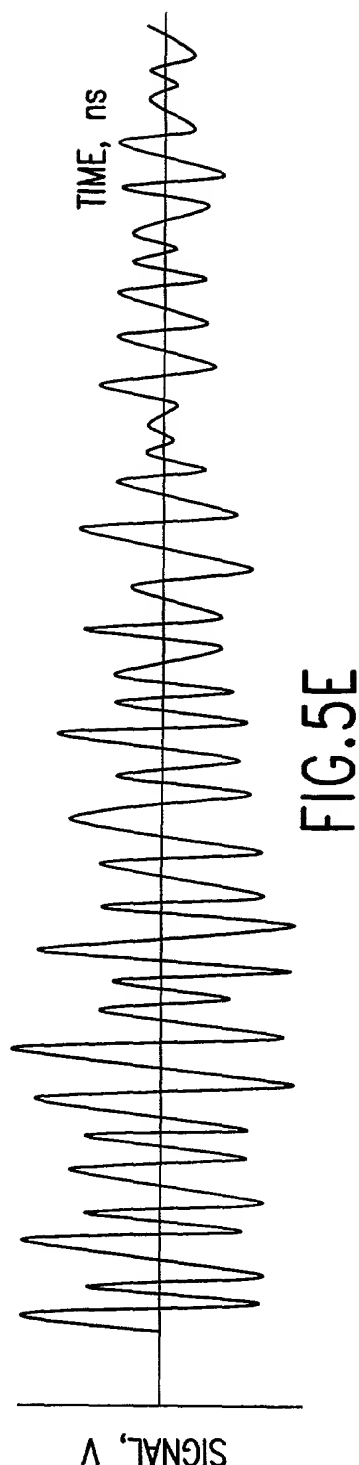
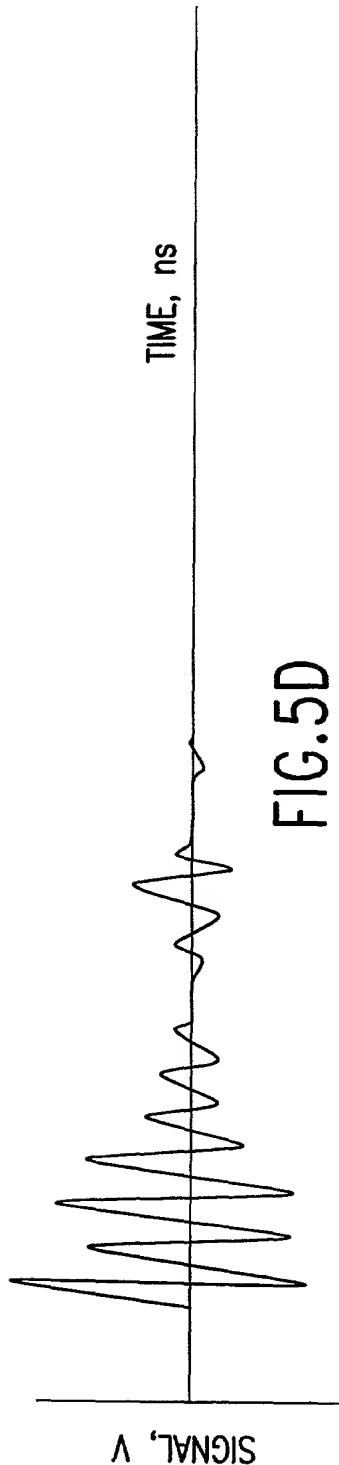
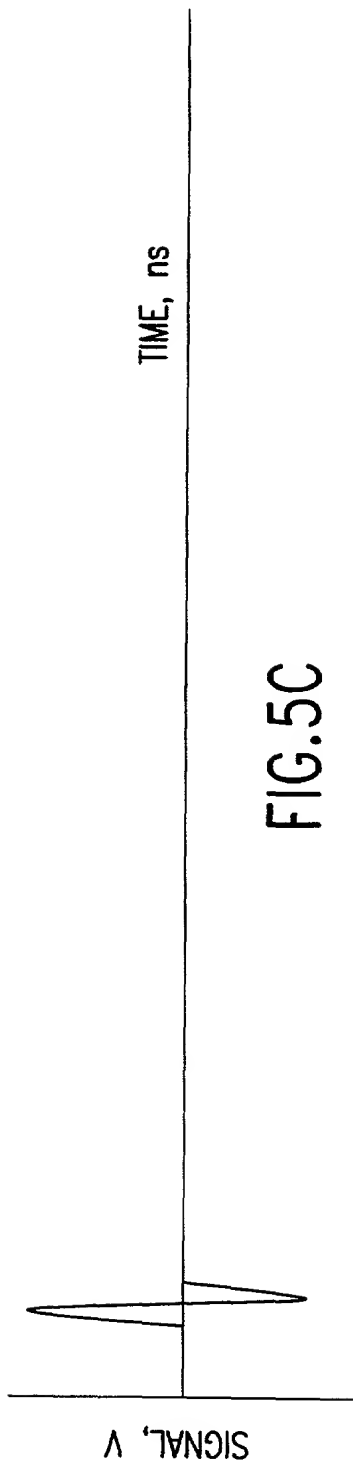


FIG. 4

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Rayleigh Fading

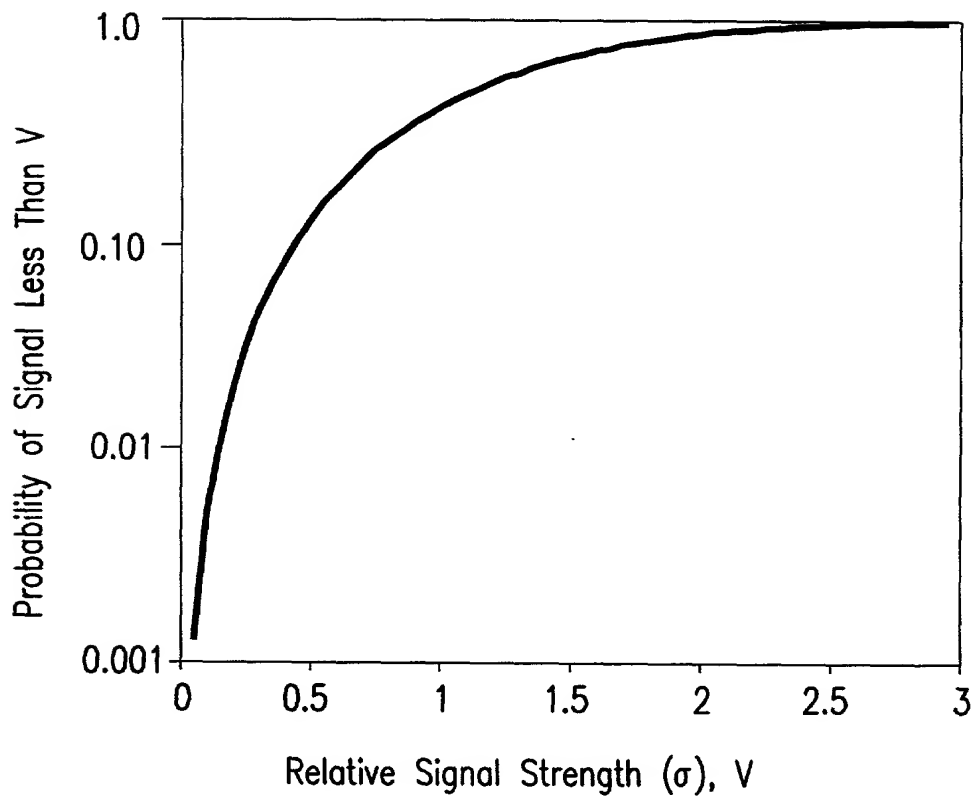


FIG.5F

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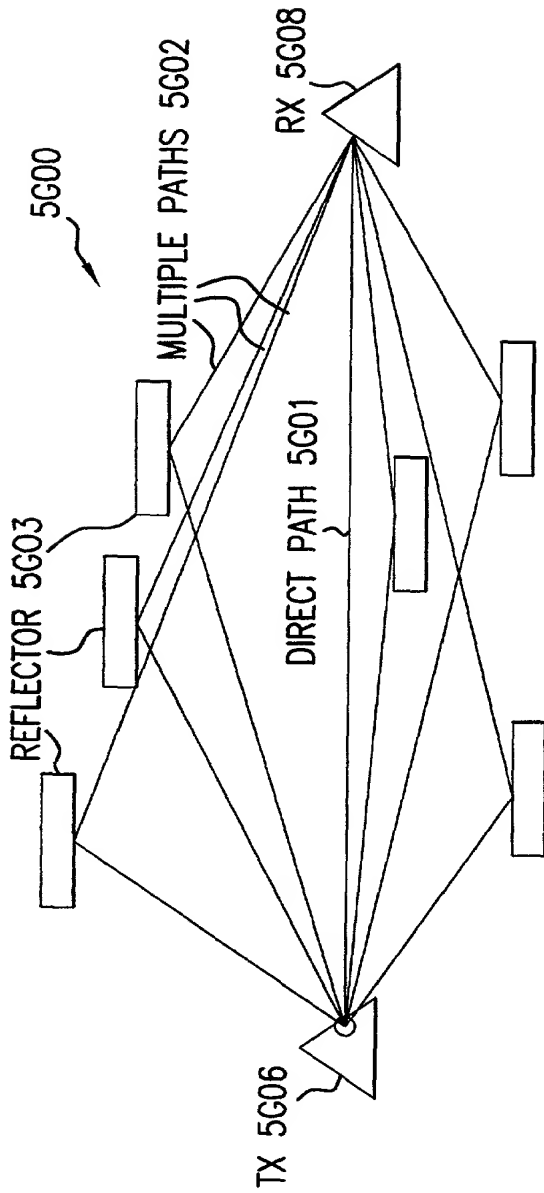


FIG. 5G

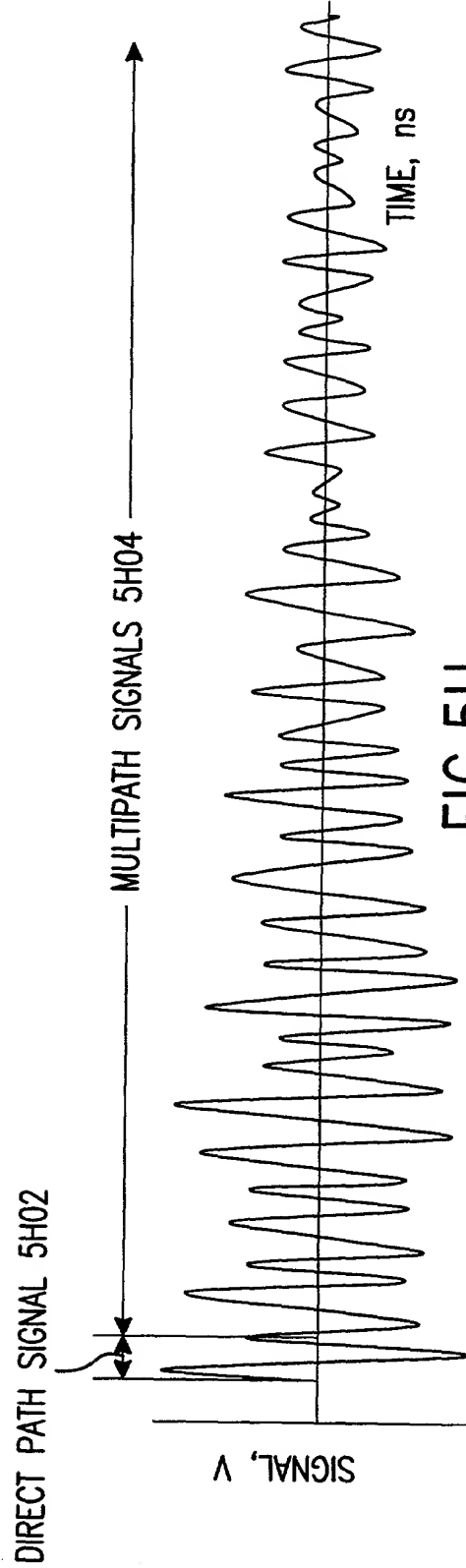
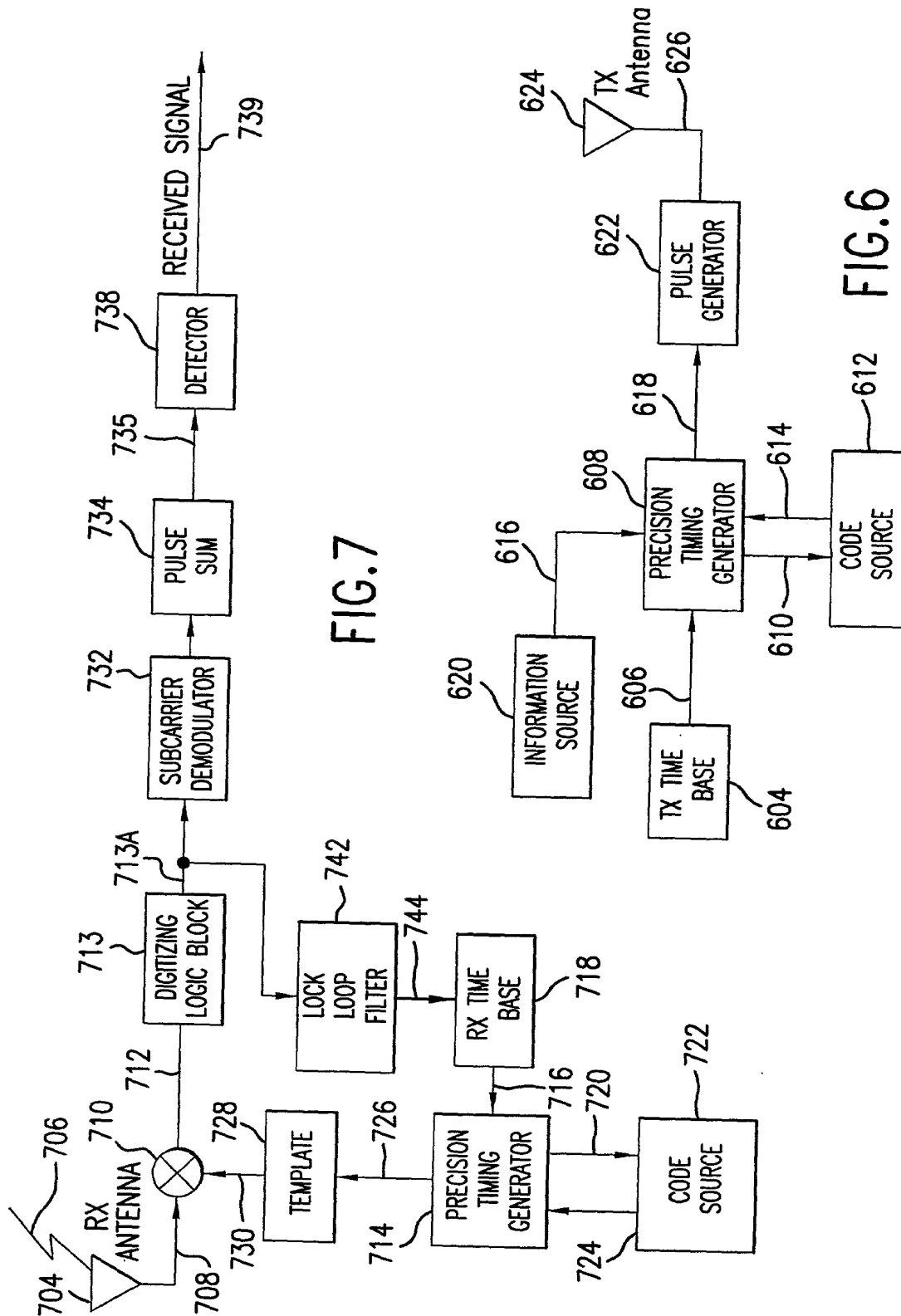


FIG. 5H

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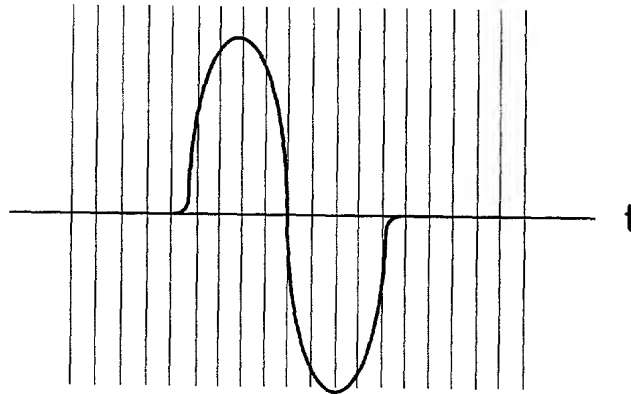


FIG. 8A

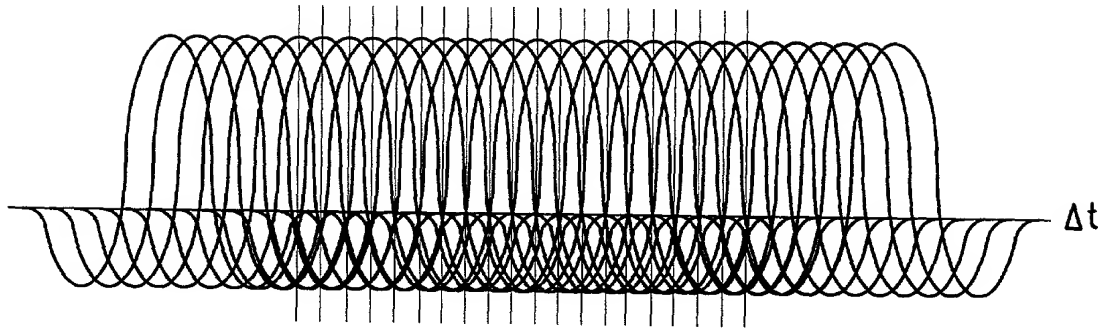
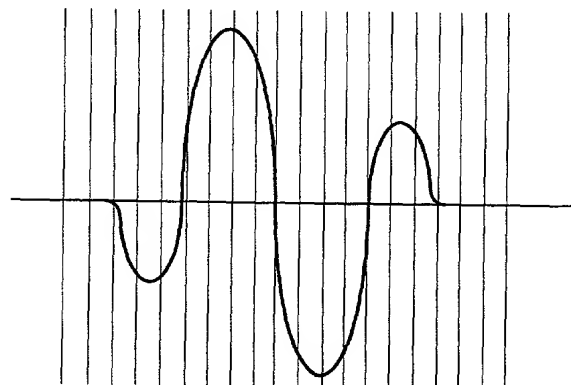


FIG. 8B



CORRESPONDING
 TO EACH
 Δt

FIG. 8C

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FIG. 9

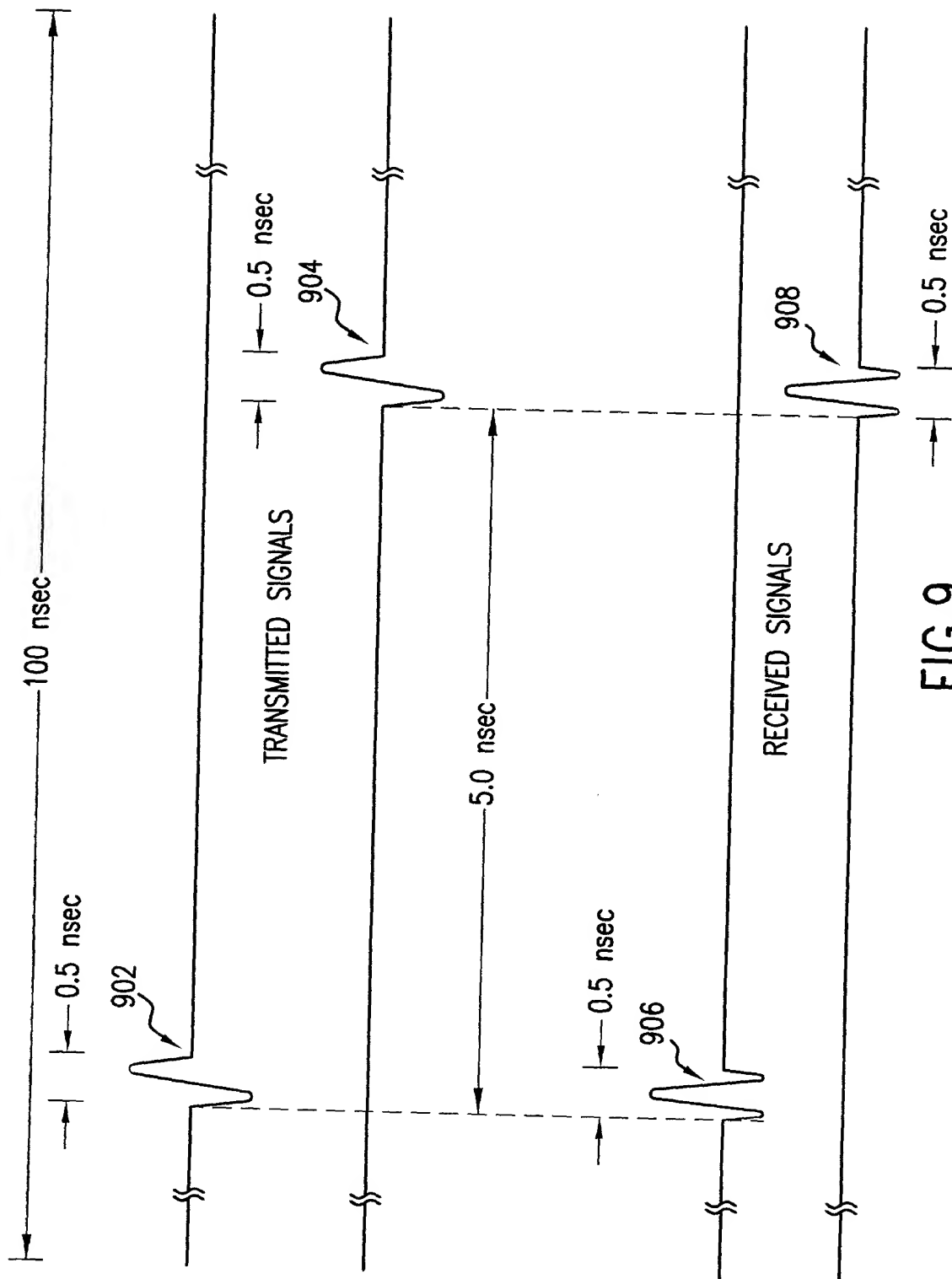


FIG. 9

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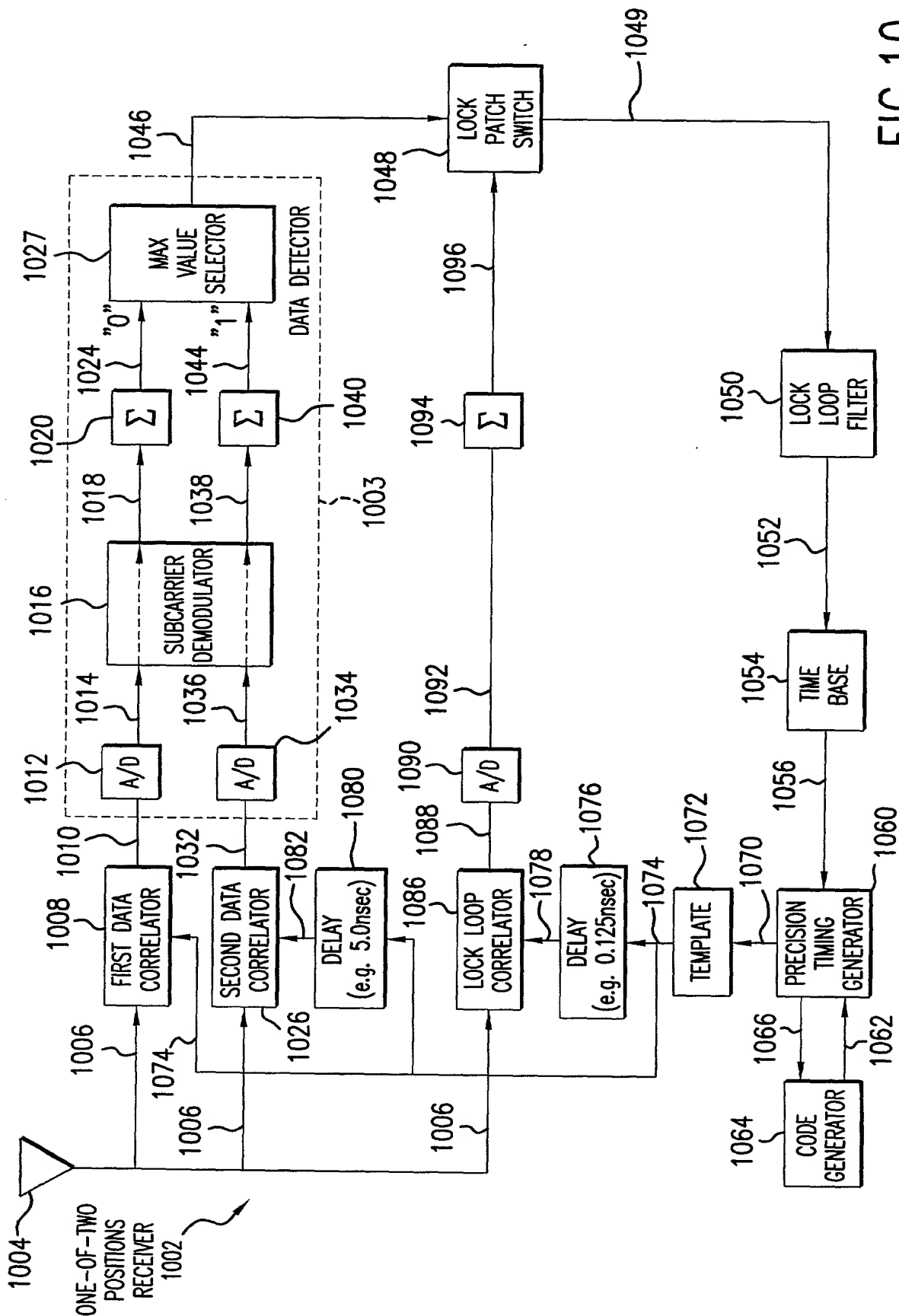


FIG.10

FIG. 10 06252860

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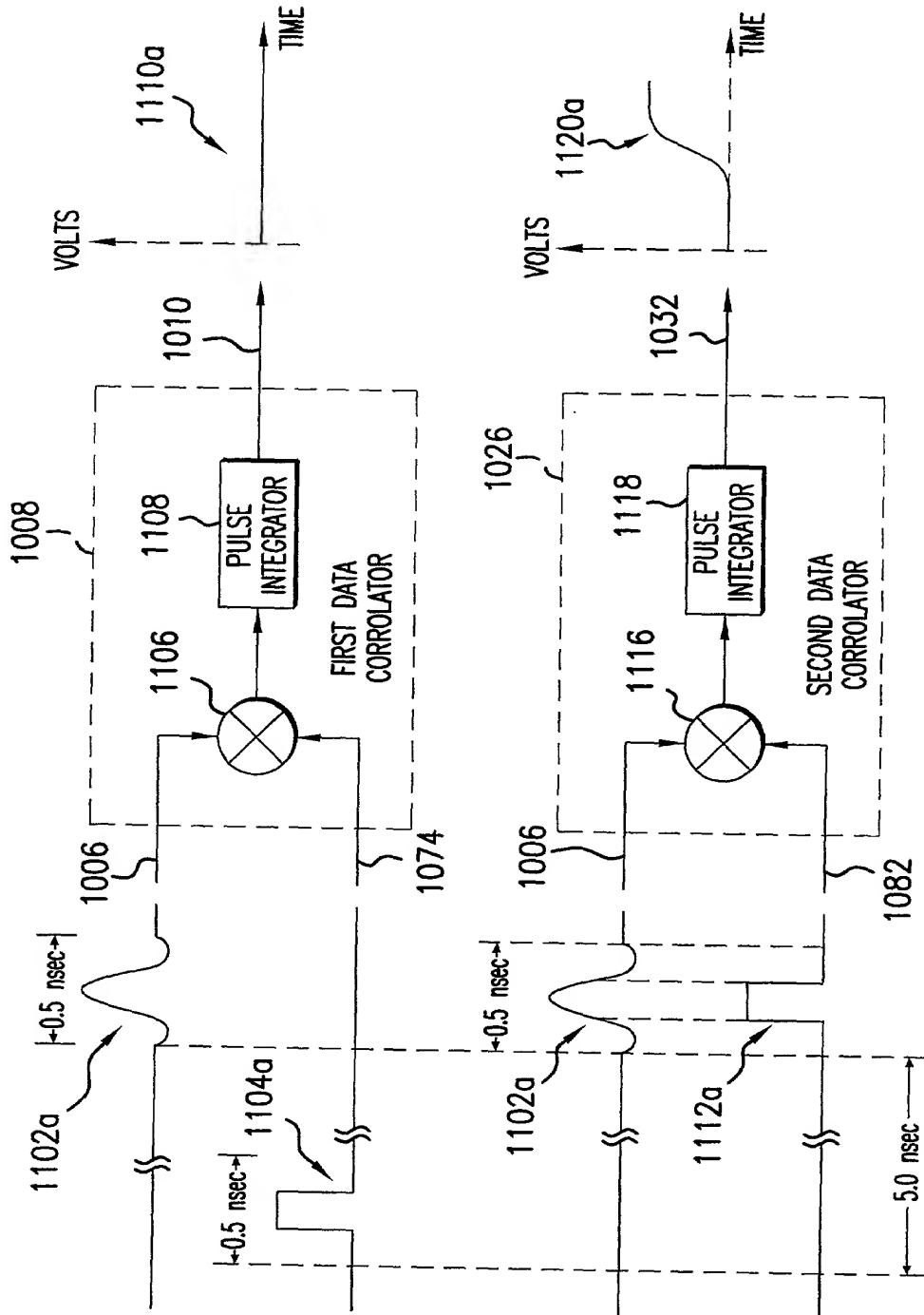


FIG.11A

FIG. 11A

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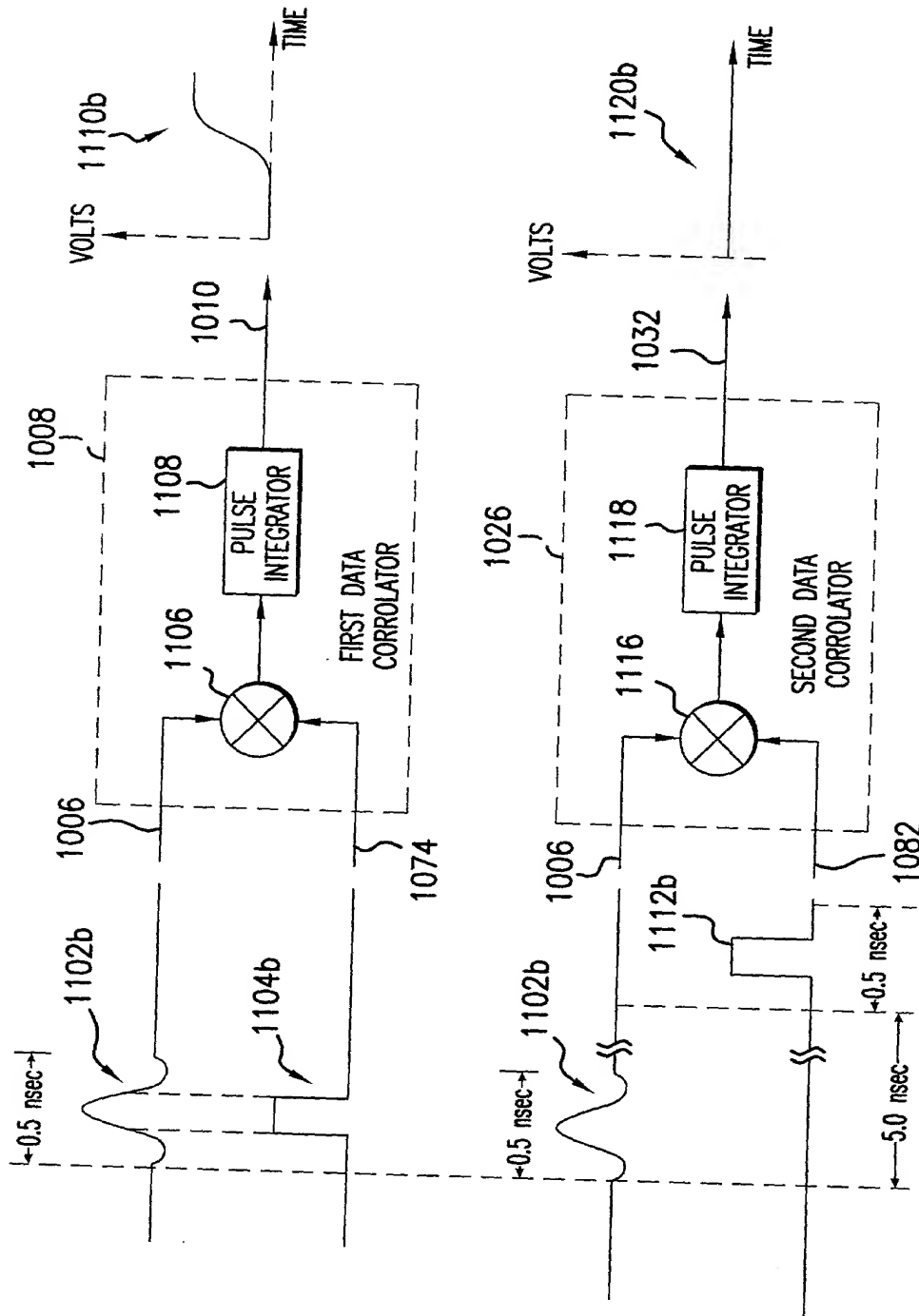


FIG. 11B

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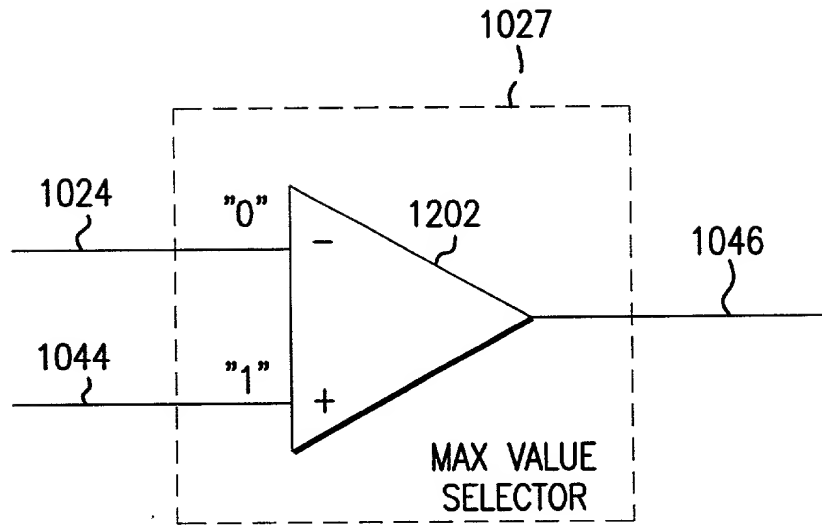


FIG.12

1659 0860001

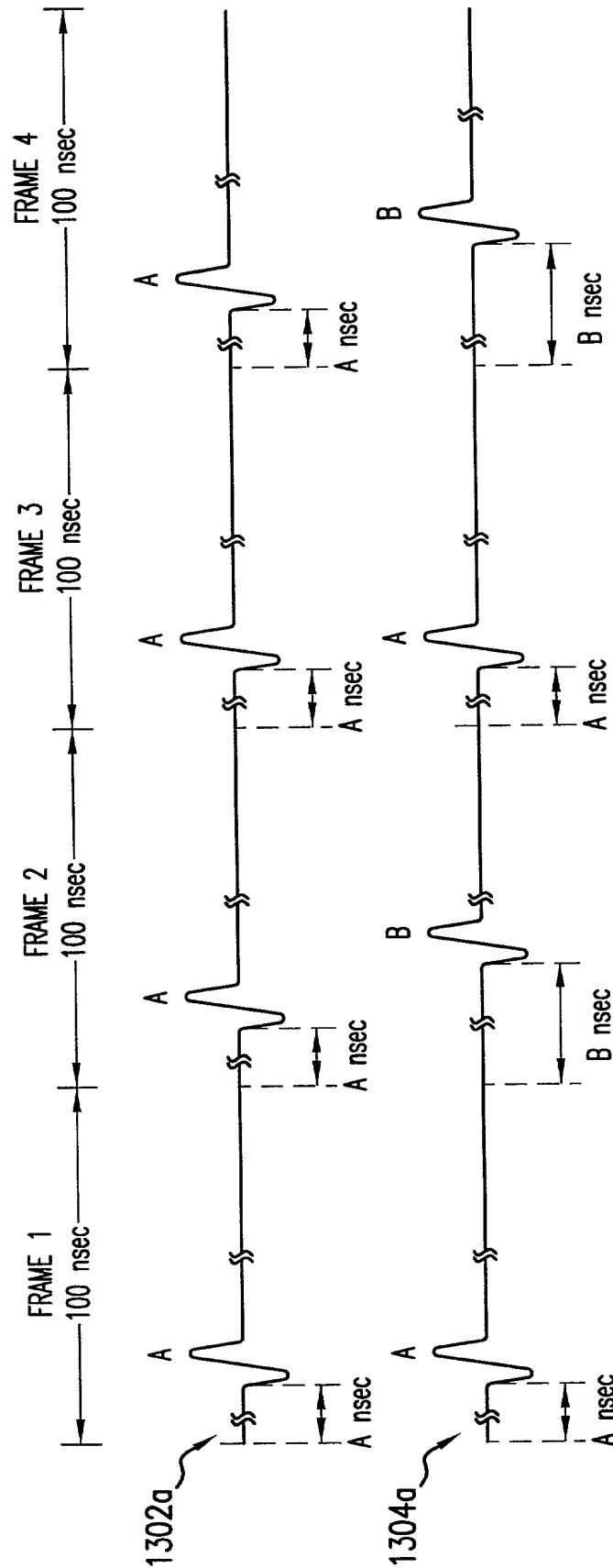


FIG. 13A

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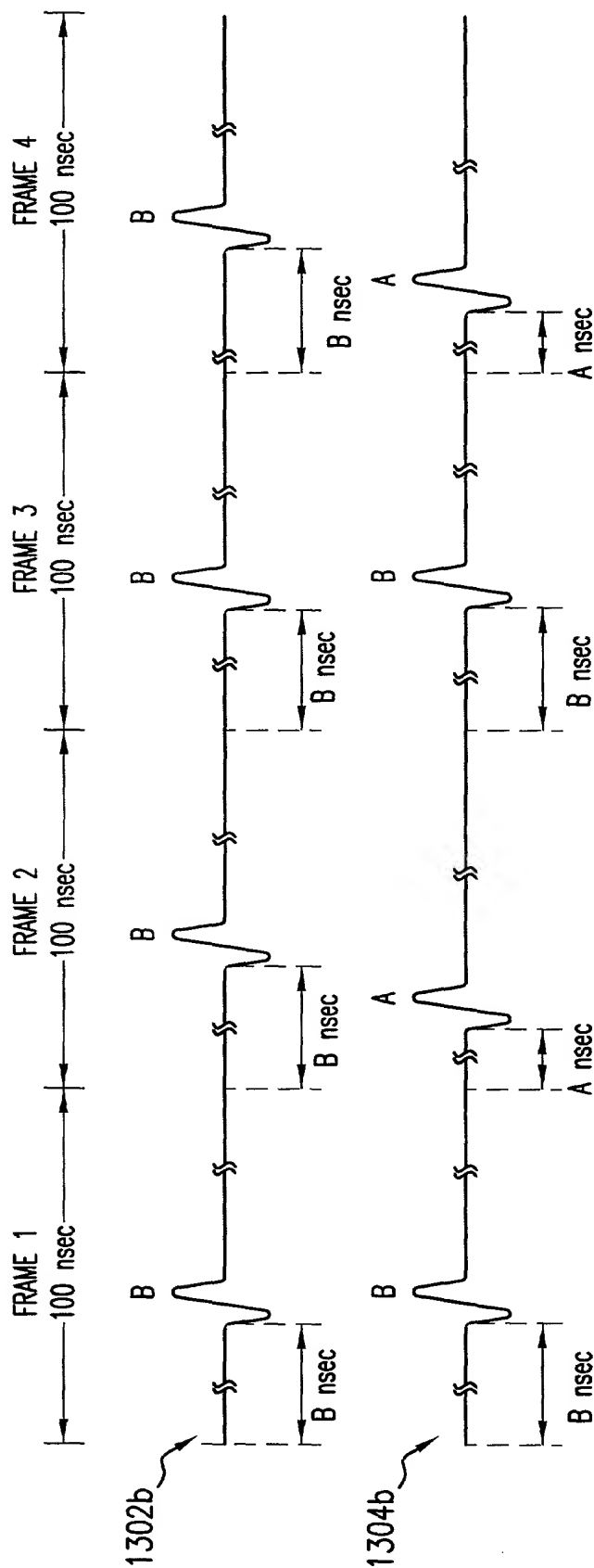


FIG.13B

FOOT" 06254860

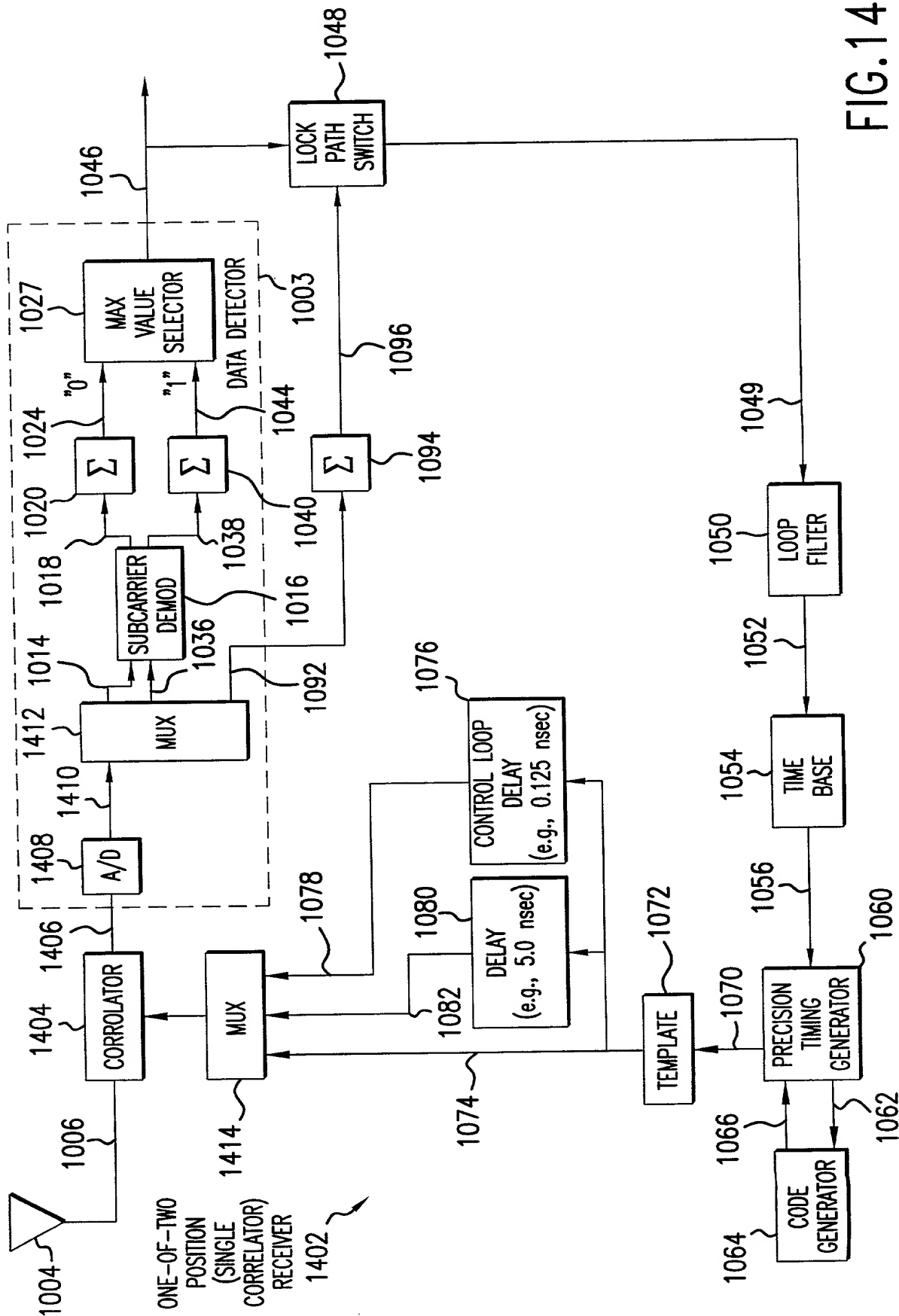


FIG.14

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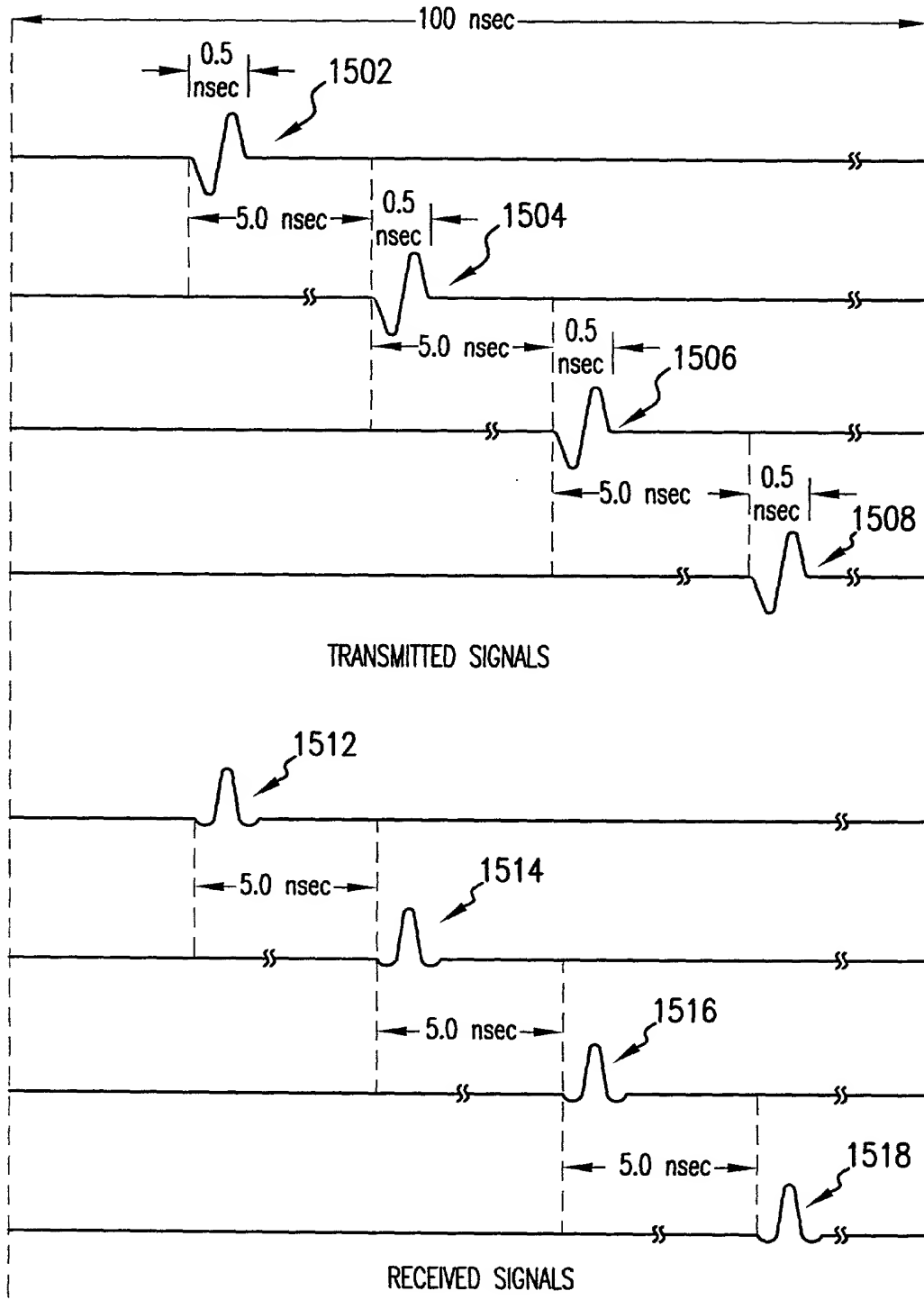


FIG.15



Appl. No. 09/875,290, Group A Unit 2681
 Dkt. No. 1659 0860001
 Inventor(s). Richards et al., Tel. 202/371-2600
 Title Apparatus, System and Method for One-of-Many
 Positions Modulation in an Impulse Radio . . .

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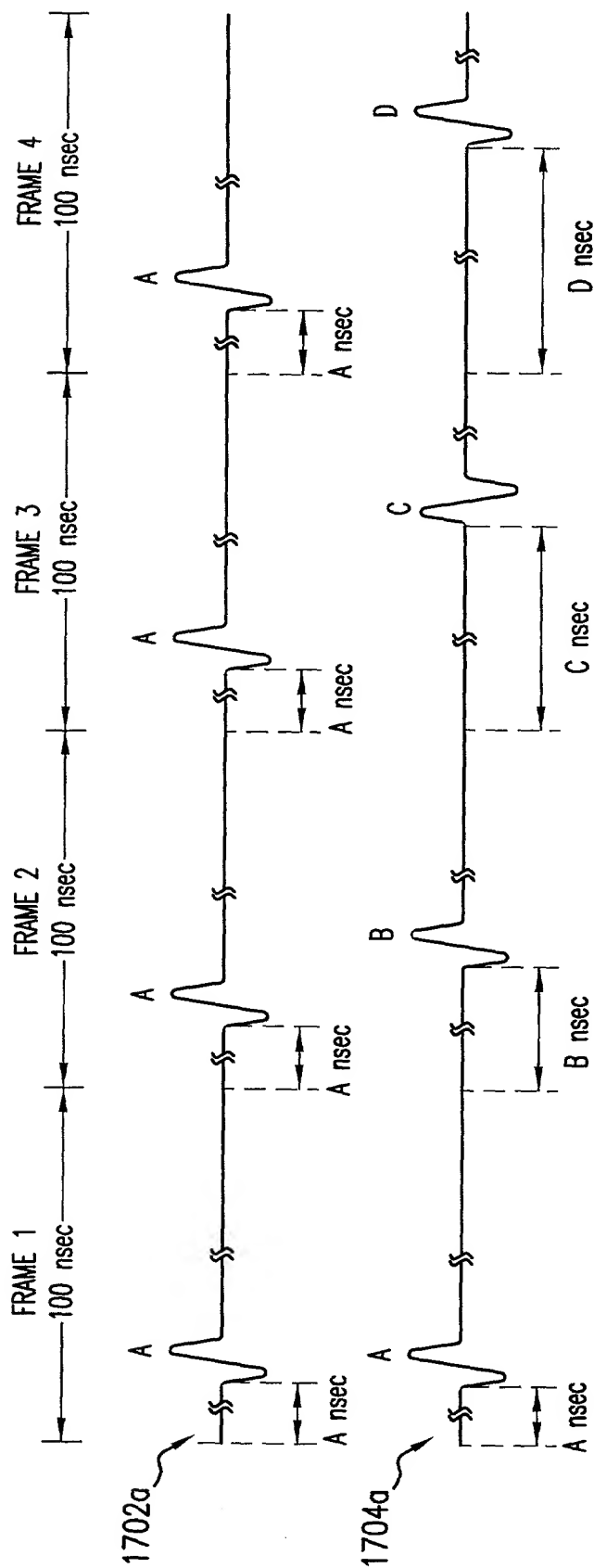


FIG.17A

FIG. 17A

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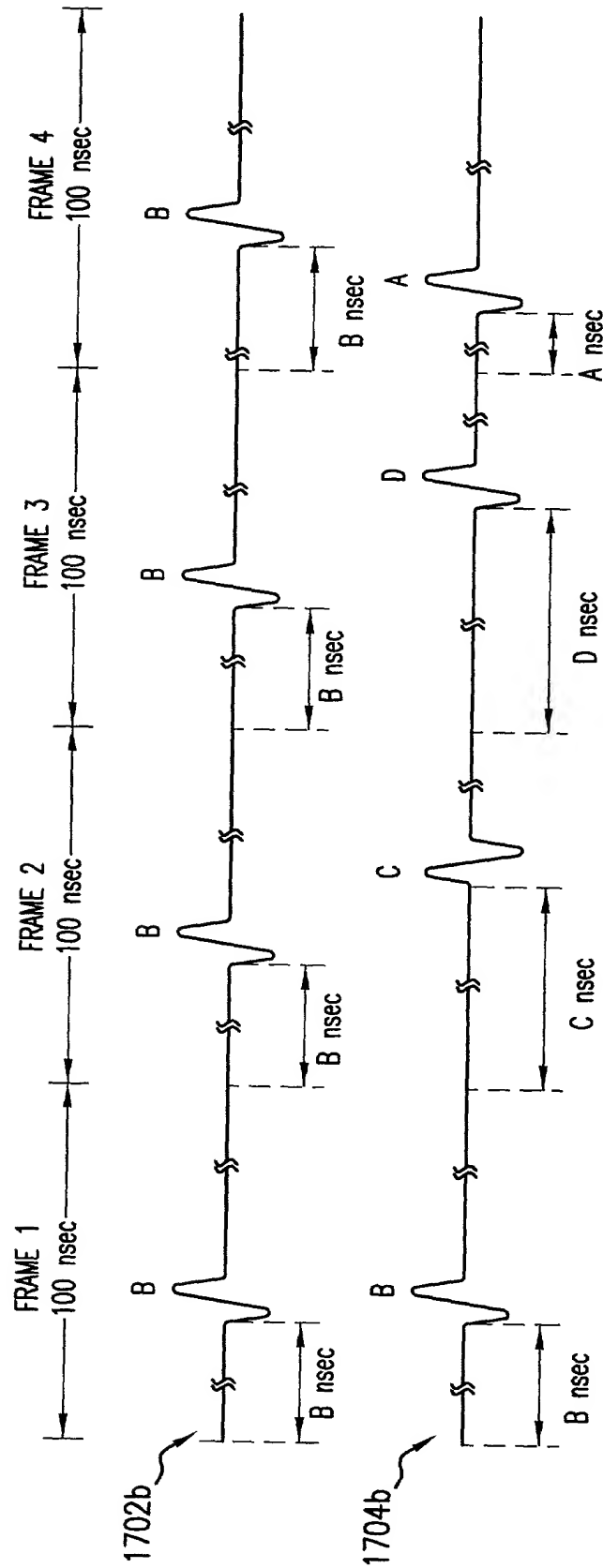


FIG.17B

106001" 0525/2860



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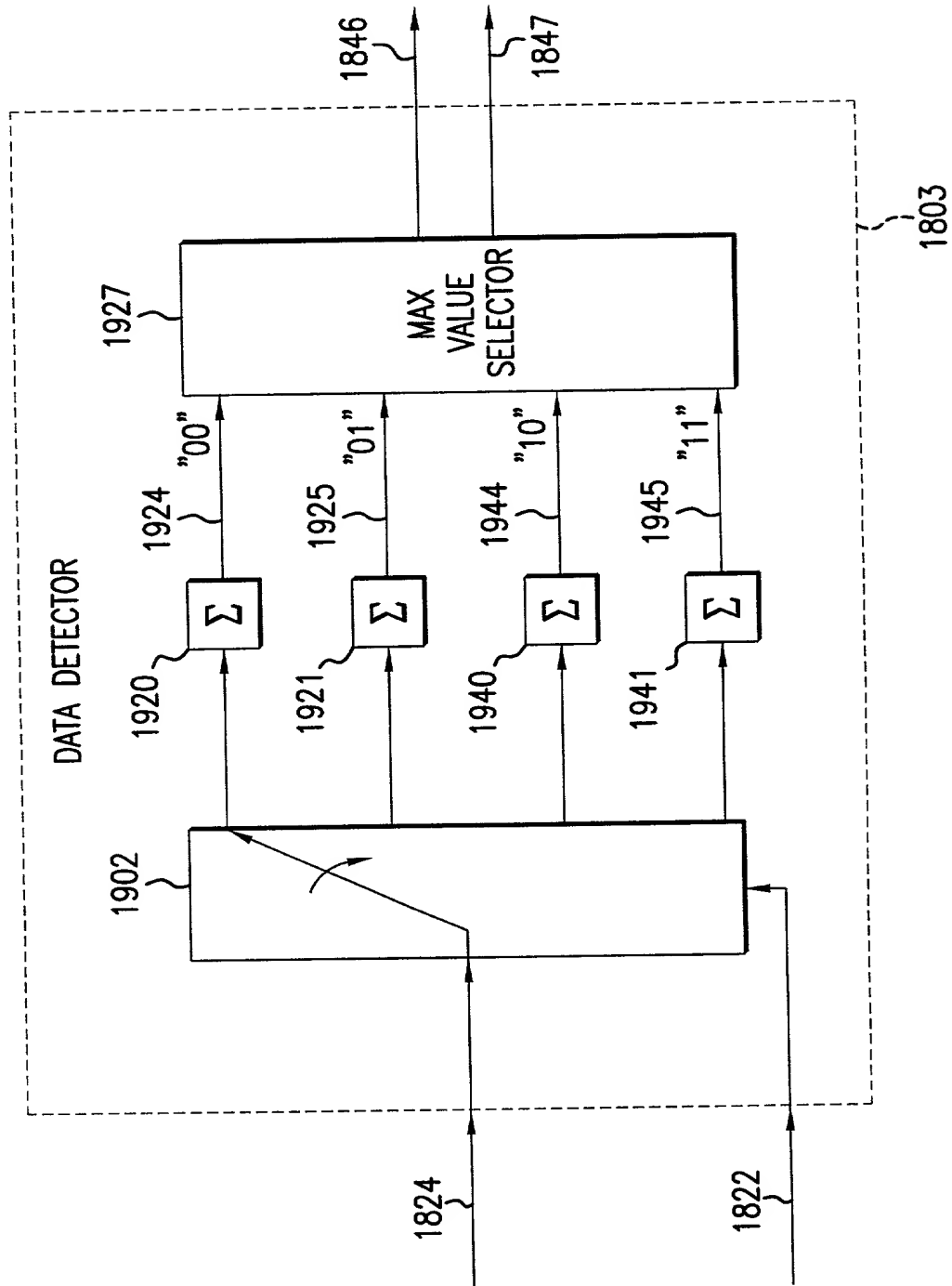


FIG.19

FIG. 19 0625/2650

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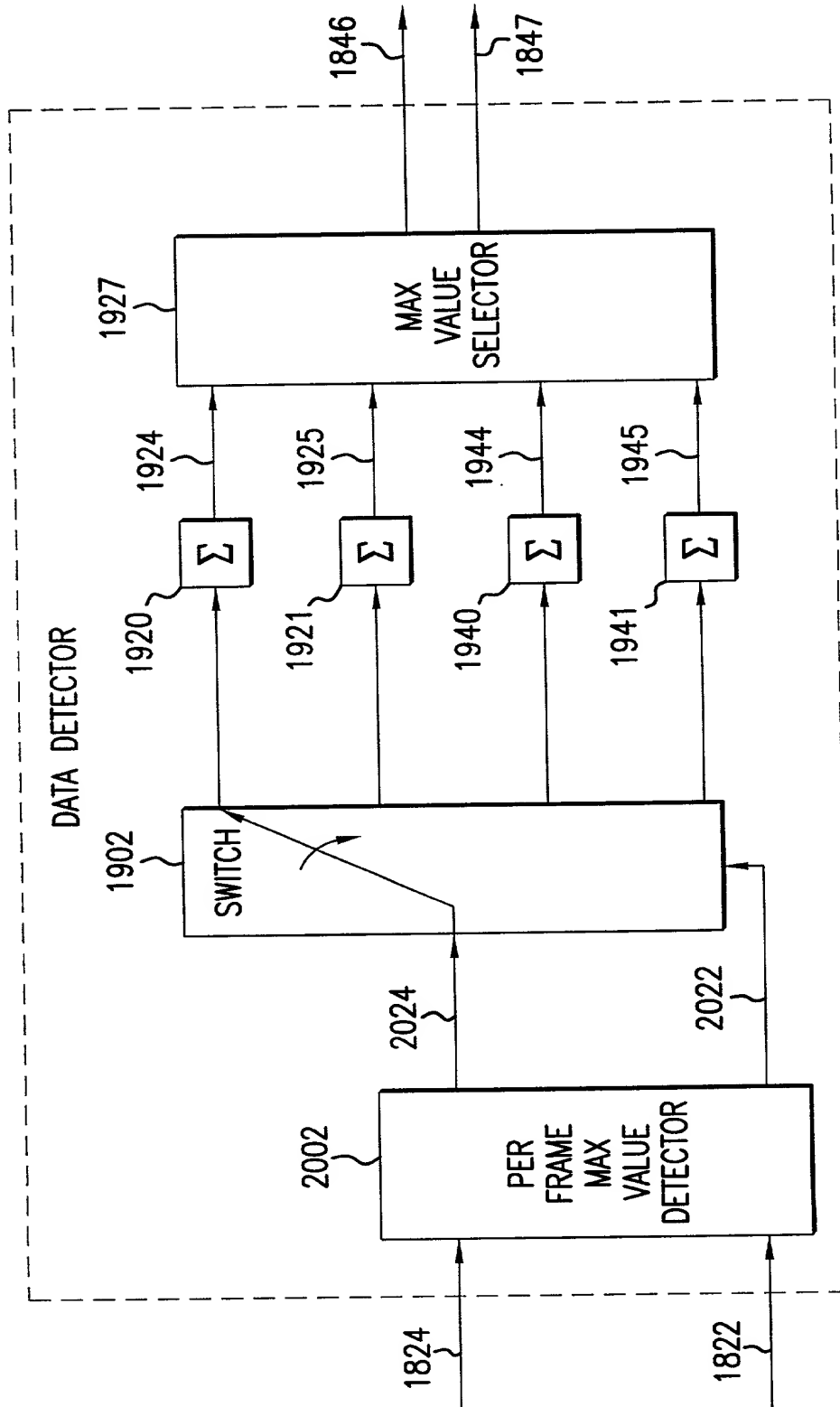


FIG.20

FIG. 20

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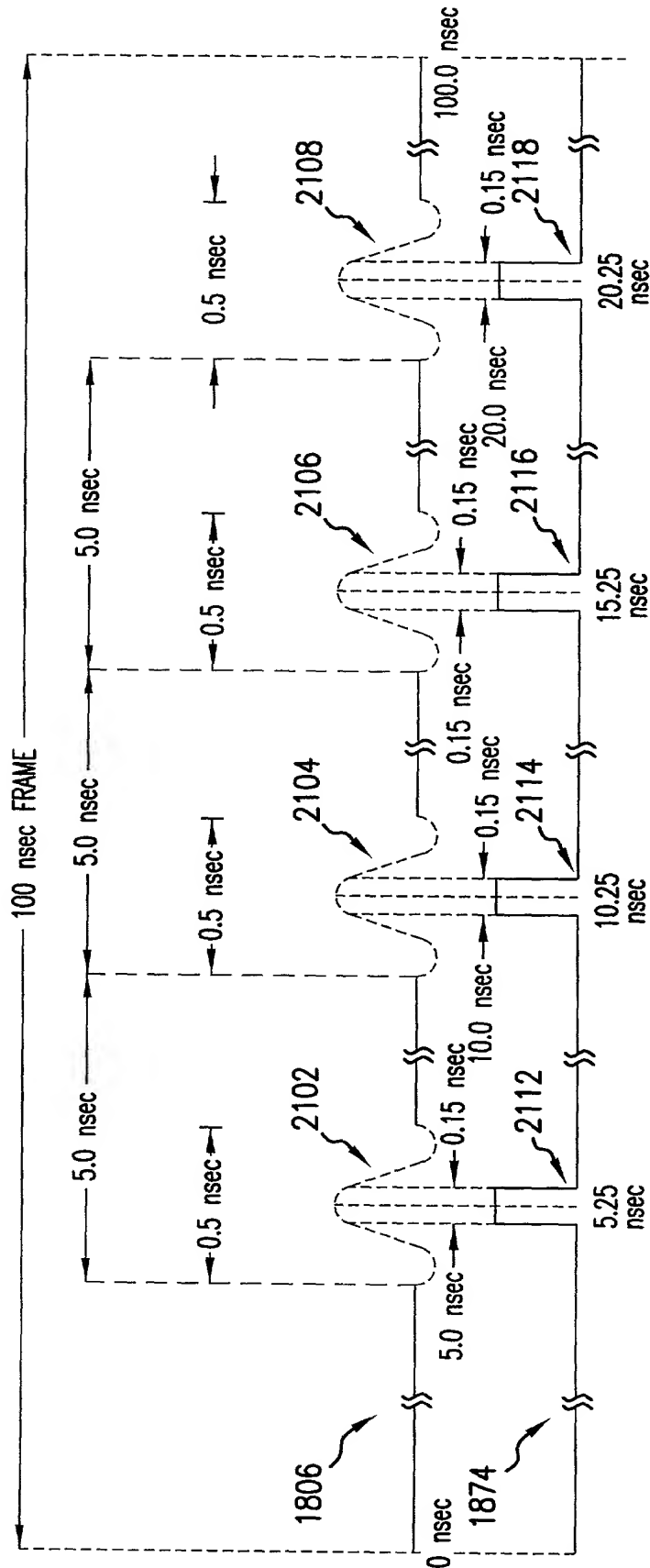


FIG.21

FIG. 21

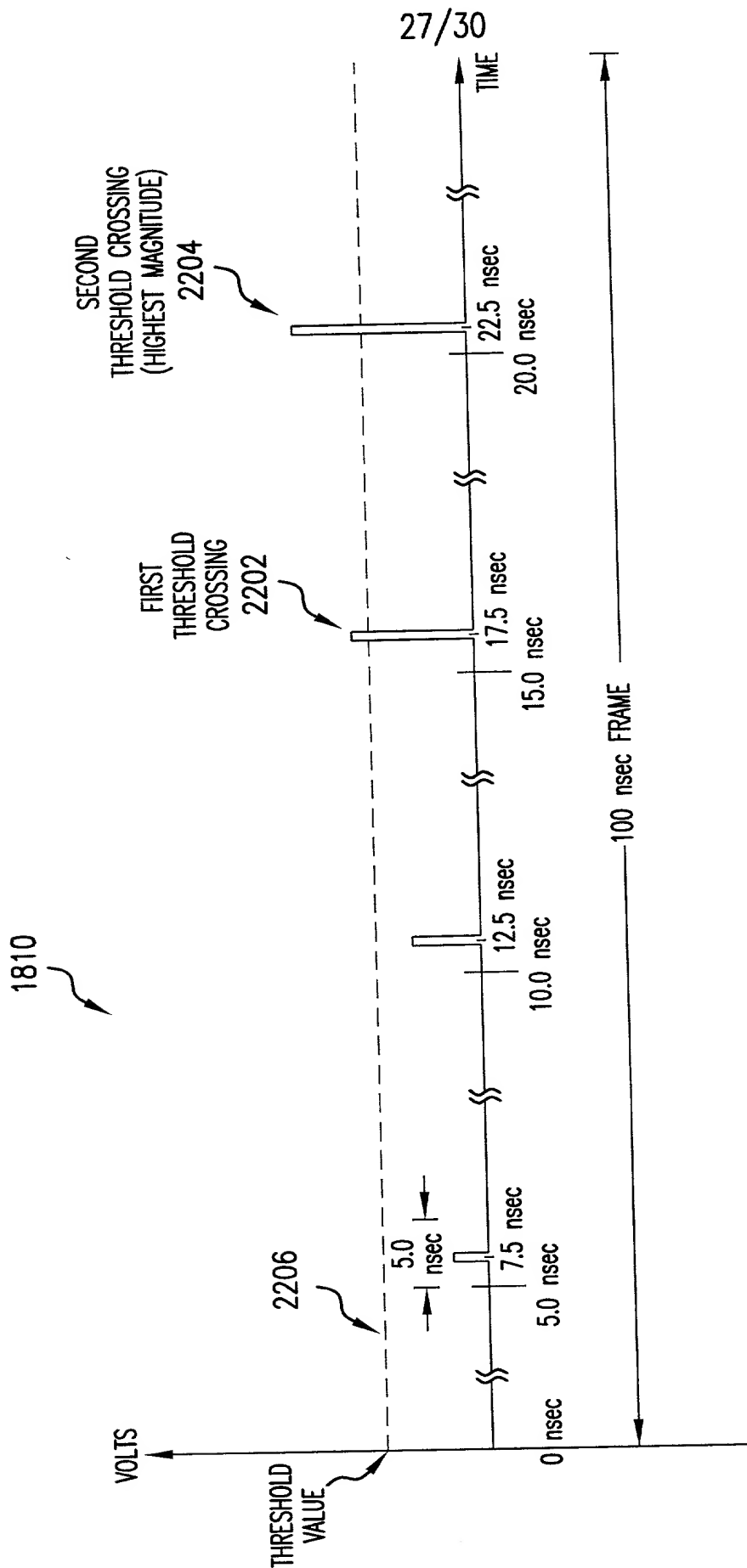


FIG.22

FIG. 22

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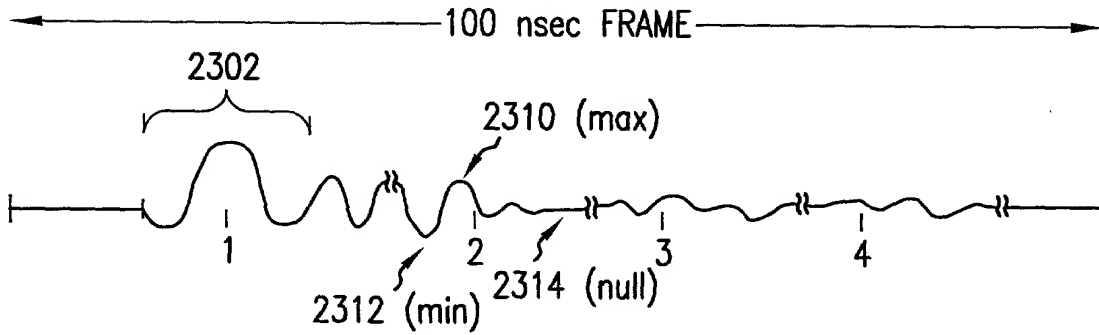


FIG. 23A

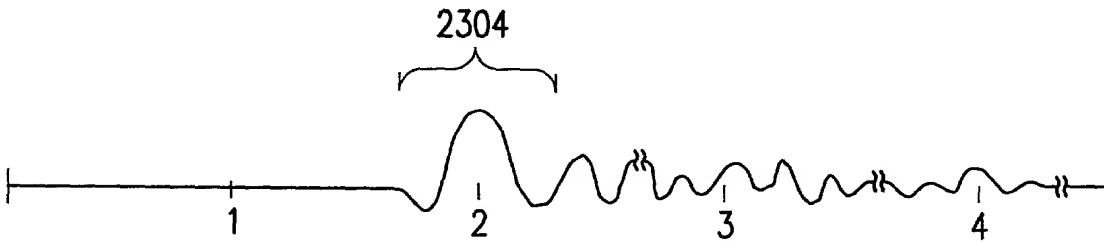


FIG. 23B

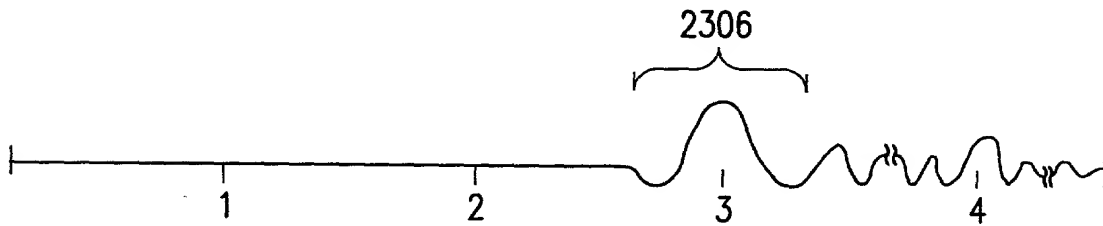


FIG. 23C

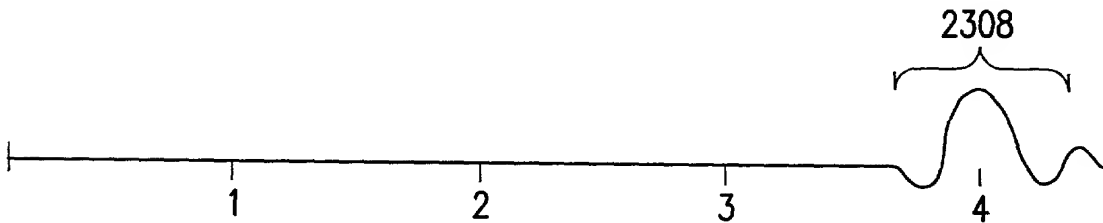


FIG. 23D

FIG. 23A

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2402

LOCATION OF CORRELATOR: ACTUAL LOCATION OF IMPULSE		2412				2414		2416		2418	
		A (FIRST POSITION)				B (SECOND POSITION)		C (THIRD POSITION)		D (FOURTH POSITION)	
2404	A (FIRST POSITION)	A _A				B _A		C _A		D _A	
2406	B (SECOND POSITION)					B _B		C _B		D _B	
2408	C (THIRD POSITION)							C _C		D _C	
2410	D (FOURTH POSITION)										

FIG.24

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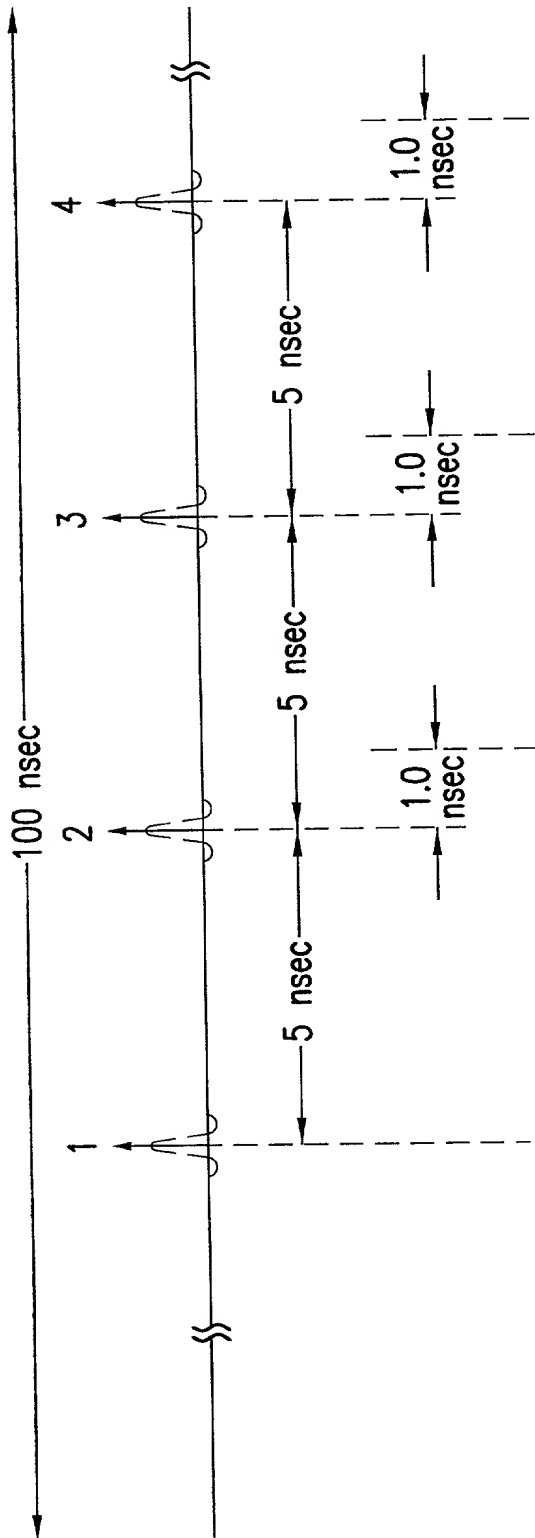


FIG. 25A

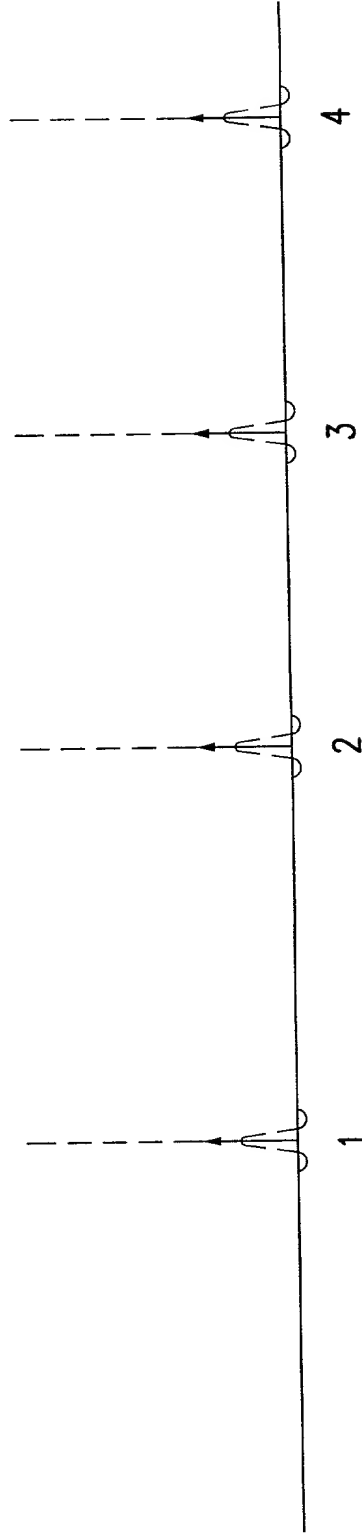


FIG. 25B